

NEWSLINE

Published for the employees of Lawrence Livermore National Laboratory

April 30, 2007

Vol. 32, No. 10

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LAB NEWS

AAAS committee releases final report on RRW

By David Schwoegler
Newsline staff writer

Earlier this year, a premier committee chaired by former Laboratory Director Bruce Tarter for the American Association for the Advancement of Science was convened to examine the RRW proposal. The Nuclear Weapons Complex Assessment Committee members [See listing pg. 5] represent a broad array of senior members of the technical and policy community including Livermore alumni Johnny Foster and Phil Coyle, and former Los Alamos director Sig Hecker.

Now the Secretary of Energy and the Secretary of Defense will submit a report on the feasibility and implementation of the RRW program to the congressional defense committees.

Prior to a presentation on the Hill, Director Emeritus Tarter spoke Tuesday morning on behalf of the committee through a national telephone conference call with the news media.

According to Tarter, the state of U.S. nuclear



Bruce Tarter

weapons is that we have been maintaining the stockpile we had at the end of the Cold War for more than 15 years without doing nuclear testing (the nation last tested a nuclear weapon in 1992). When underground testing ceased, a science-based stockpile stewardship program followed and has had considerable success in preserving confidence in the stockpile without nuclear testing. A key question, however, was: Can the stockpile be extended indefinitely? In other words, can we continue to maintain retro systems as they age and technology moves on? The designs of the Cold War era produced maximum yield to weight. The current proposal is replacing older weapons with new ones with not as much “bang for the buck.”

In brief, the first proposed replacement warhead, or RRW, identified challenges. But the committee believes it could be produced roughly as promised, Tarter said. The primary difficulty is building the plutonium pits that are needed for the replacement warheads. A larger issue, with far more challenges, is redefining and rebuilding the weapons complex while potentially replacing much of the

stockpile with new warheads. It is difficult to judge the proposed plan at present because there are few numbers available on its scope, costs or schedules.

In addition, while a single warhead replacement involves some policy issues, the larger effort requires a top-down policy framework for success, similar to Ronald Reagan’s approach on the Strategic Defense Initiative or Bill Clinton’s on stockpile stewardship, Tarter explained. Doing long-term major programs requires broad consensus throughout the government, which in this case means 25 years or several administrations and a dozen congresses that must provide bipartisan consensus — which has not yet occurred — and that includes non-proliferation issues.

For the first RRW, a selection of lab and design paths have been made. This particular task will be done using the existing industrial complex. Costing and engineering studies are now under way. However, on the costing, scope and schedule on the bigger issue of complex configuration, we need more information that isn’t there, Tarter said.

Some people have a problem understanding how a new device, with new materials could be more reliable than an existing one that has been tested. The answer is that some existing

See **RRW**, page 5

NNSA’s Schoenbauer details ‘Complex 2030’ plan for DNT

By Dan Sapone
TID

Martin ‘Marty’ Schoenbauer, acting deputy administrator for Defense Programs, NNSA, visited the Laboratory last week and addressed the Defense and Nuclear Technologies Directorate (DNT) on “Defense Programs Issues and RRW.”

Schoenbauer opened with congratulations to the LLNL Reliable Replacement Warhead (RRW) team for providing the winning design, “enabling the nation to go forward with the RRW strategy for transforming the nuclear deterrent.”

The goal of his talk was to discuss NNSA’s “Complex 2030” plan and LLNL’s key roles in it. Schoenbauer explained in detail the four integrated strategies for transforming the U.S. nuclear weapons enterprise to more effectively meet the nation’s security needs by the year 2030:

- Transform the nuclear stockpile: In partnership with the Department of Defense, the goal is to transform the nuclear stockpile through development of reliable replacement warheads, refurbishment of limited numbers of legacy weapon designs, and accelerated dismantlement of the Cold War stockpile. LLNL was selected as lead laboratory to go forward



JACQUELINE MCBRIDE/NEWSLINE

From left, DNT’s Bruce Goodwin, DOE’s Camille Yuan-Soo Hoo and Director George Miller meet with NNSA’s Martin Schoenbauer.

with the RRW design.

- Modernize the nuclear weapons complex: This strategy is to transform the nuclear weapons complex into a modern, cost-effective enterprise. The LLNL RRW design significantly simplifies manufacturing requirements, enabling less expensive processes and reducing the use of hazardous materials.

- Transform the operations of the complex: Complex 2030 plans to create a fully integrated and interdependent nuclear weapons complex — enabling it to operate more effectively as a corporate entity. With LLNL’s leadership, plans are already in place to increase throughput and dismantlement rates at the Pantex plant, improve our ability to certify legacy weapon systems, and install multi-site incentives to “get the job done” in the many cases where projects involve more than one agency.

- Drive NNSA’s Science and Technology Base: NNSA’s science and technology base gives the country options for a future nuclear deterrent.

Schoenbauer described LLNL’s contributions to “the science of discovery” as well as “the science of application” — both keys to the future success of NNSA and other national security agencies.

By demonstrating the success of the reliable replacement warhead strategy, the nation can implement the strategic triad established in the 2001 Nuclear Posture Review, according to Schoenbauer.

In conclusion, he praised LLNL’s innovation and ability to deliver significant contributions to these four Complex 2030 strategies.

2007 TRANSITION NEWS



Expanded services during transition

Retirement counseling

The Benefits Office is conducting half day retirement election preparation sessions for those considering retirement in calendar year 2007. Sessions will be increased up to twice daily during May, July and August according to need.

These sessions are designed to provide necessary information to participants in a detailed overview of the benefits you can anticipate from the University of California Retirement Plan (UCRP). Participants will receive specific estimates of their retirement income and instructions on how to apply for benefits.

Participants should sign up for sessions not more than 90 days in advance of their anticipated retirement date. Seating for each session is limited and advance registration is required. Those who wish to attend must register using L-Train and refer to course PS8026.

Completion of a pre-questionnaire is required in order to provide participants with individualized session packets. Employees may register their spouse or domestic partner through the Benefits Office, 2-9955.

Additional retirement counselors from UC campuses will be brought in to provide retirement election interviews during peak periods in April, May, July, and August. Counseling by phone will be provided to Laboratory employees at the Nevada Test Site, Washington D.C. and other offsite locations.



Hugh West, left, and Stacy Greene, are two of several new Benefits counselors who have been hired to help employees through the transition.

JACQUELINE MCBRIDE/NEWSLINE

Vacation cash-out calculator available on the Web

Employees planning to continue employment with the new contractor will have a choice to either cash out their vacation balance in full, or carry over their accrued vacation hours to the new contractor. No partial cash-outs/carry-overs will be permitted. Employees (including those who transfer,

See TRANSITION, page 7

Questions and answers

Q: With the recently announced delay in the contract award, will NNSA extend the current UC contract to allow for a six-month transition? If the decision were to slip to the end of May, the employees could potentially be short-changed two months.

A: Regardless of the length of the transition term, LLNL's current Contract 48 will expire on Sept. 30 and the new contract will go into effect on Oct. 1, 2007. Until the announcement is made and the new contractor proposes their transition plan to NNSA, we will not know the specific timetable or the details of how the transition will be accomplished by Sept. 30. However, we intend to work very closely with the incoming contractor to ensure that employees are given the highest priority in providing the information needed to make appropriate employment and benefits choices.



Q: As an "Inactive Vested (in UCRP) Transferring Employee" will I be able to sign up for Social Security deductions to begin with the new Contractor?

A: Under the new contract, all employees will be required to pay into Social Security. No sign-up will be necessary.

Q: One of the main concerns many employees have is the security of the funds that will be used to pay retirement benefits. When transferred from UCRP to the new corporation will the funds be put into a trust or other legal entity that can only be used to pay retirement benefits for the employees? In other words can the new corporation get access to the funds for any purpose other than paying benefits to retirees?

A: By law, the funds must be put into a trust. They may not be used

to benefit the sponsoring company and must be used exclusively for the purpose of providing benefits to the participants and for defraying the expenses of administering the plan.

Q: Is my lump sum retirement amount automatically transferred to my 401k account if I continue on with the new contractor? If not, will I have the option of transferring the funds to a 401k?

A: If you elect a lump sum cashout from UCRP in lieu of monthly retirement income, it will not be automatically transferred anywhere. You will have a choice to cash out or roll over to an IRA or an employer-sponsored plan that will accept the rollover, which may or may not include a plan provided by the new contractor. Alternatively, you could choose to roll over the lump sum cashout to one of the UC-sponsored Retirement Savings Plans (Defined Contribution Plan, 403(b) Plan or 457(b) Plan).

THE CONTRACT TIMELINE	2007
New contract awarded Compensation, benefits and pension planning begins	Spring
Contractual transition begins	July 1
Current contract expires	Sept. 30
New contract starts	Oct. 1

SCIENCE NEWS

A new understanding of Pacific's Ring of Fire

By Anne M. Stark
Newsline staff writer

By looking at earthquakes deep in the Pacific plate's lithosphere, researchers have shed some light on the geophysical and geochemical processes at the Tonga subduction zone.

The Tonga trench is located in the Pacific Ocean close to what is known as the "Ring of Fire," an area of frequent earthquakes and volcanic eruptions encircling the basin of the Pacific Ocean in a 40,000 km horseshoe shape. It is associated with a nearly continuous series of oceanic trenches, island arcs, and volcanic mountain ranges and/or plate movements. The Tonga trench and its forearc form an active subduction zone between two plates of the lithosphere (the outer shell of the earth's mantle made up of the crust and upper most part of the mantle), with the Pacific plate being subducted below Tonga at the northeastern corner of the Australian plate.

Ninety percent of the world's earthquakes and 81 percent of the world's largest earthquakes occur along the Ring of Fire.

Lab scientist Megan Flanagan, working with researchers from UC Santa Cruz, characterized the structure and processes in the Tonga mantle wedge. The characterization is essential for understanding the formation of continental crust, evolution of back-arc basins and volatile circulation in the mantle.

Dipping oceanic lithosphere sinks at subduction zones is a fundamental process of plate tectonics. The overlying mantle wedge, in this case the Tonga wedge, becomes enriched in volatiles released from the descending slab, then undergoes localized partial melting and ascent of magmas to produce island or continental arcs.

The seismic activity, in and around the Tonga wedge, are a result of the Pacific plate subducting beneath the Australian plate.

"By using seismic waves from deep earthquakes in the region, we were able to illustrate how complicated the structure of the wedge and how the release of fluids in the downward moving slab may play a significant role in partial melting and chemical complexity in the wedge," Flanagan said.

The Pacific plate has been sinking

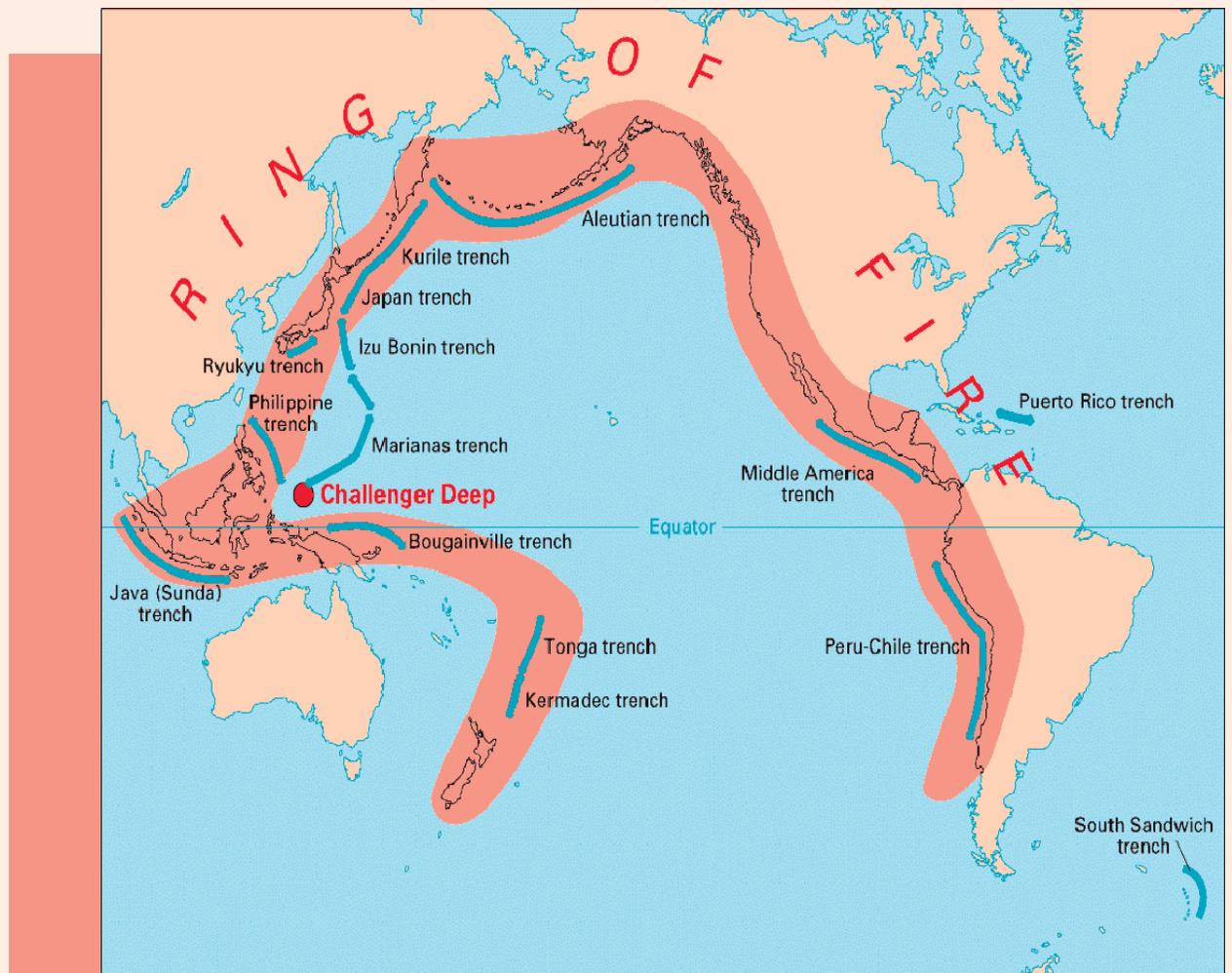


IMAGE COURTESY OF U.S. GEOLOGICAL SOCIETY.

Volcanic arcs and oceanic trenches partly encircling the Pacific Basin form the so-called Pacific Ring of Fire, a zone of frequent earthquakes and volcanic eruptions. The trenches are shown in blue-green. The volcanic island arcs, although not labeled, are parallel to, and always landward of, the trenches.

at the Tonga subduction zone for 40 million years at a rate of about six inches per year. However, the northern portion has the highest known rate of interplate convergence (about 10 inches per year) due to a combination of fast Pacific plate motion and rapid back-arc spreading of the Lau Basin. This is the fastest plate velocity recorded on the planet. The number of intermediate and deep focus earthquakes in the Tonga slab is higher than in other subduction zones, and the seismic activity reveals slab buckling and contortions. Earthquakes also occur beneath the slab at 500 kilometers, resulting in a broad horizontal distribution of deep focus earthquakes.

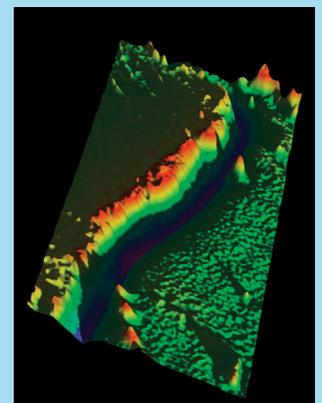
In the recent research, which appears in the April 12 edition of the journal *Science*, Flanagan and colleagues developed a three-dimensional model of P (the highest velocity of all seismic waves on the surface that arrives first) and S wave (secondary or shear waves that move through the body of earth) reflectivity in the Tonga wedge.

For years, the pattern of flow of mantle

material in the Tonga wedge has not been well understood.

"This work provides new images to aid in the understanding of the wedge dynamics and chemistry," Flanagan said.

On the cover, a 3D visualization of the Tonga trench (to the right of the underwater ridges on the left-hand side).



VISUALIZATION COURTESY OF DAWN WRIGHT,
OSU GEOSCIENCES.

RRW, from page 2

stockpile systems have very narrow performance margins that are harder to maintain when even small changes occur in the warhead.

If we relax the “bang for the buck,” it can increase the reliability of a new design, based on the successful stewardship program, coupled with a rich testing history. The committee recommends that the nation stay as close as possible to devices that have good testing pedigree, and be conservative by focusing on the margins. Then, new safety and security features can be incorporated if possible.

“As for the people, we have at present a cadre of experienced and talented employees at each of the three nuclear weapons labs. The ongoing challenges of the stewardship program attracted them throughout the last decade. The quality of these people is extremely high, as high as it has ever been. And it is they who will attend to the task at hand,” Tarter concluded.

“Our bottom line is that the RRW could be a prudent hedge against the uncertainties of an all legacy stockpile future and an opportunity that might result in a better long-term posture. We believe in taking the next steps, but we need to see another card and digest the information before committing to the larger, long-term program.”

The Department of Energy’s National Nuclear Security Administration (NNSA) acting head Thomas D’Agostino commended the AAAS study, saying recommendations from the report are consistent with NNSA’s ongoing plans to move forward with RRW, and its related efforts to transform and modernize the infrastructure of the nuclear weapons complex.

Nuclear Weapons Complex Assessment Committee	
Bruce Tarter	NWCAC chairman, LLNL (retired)
Philip Coyle	Center for Defense Information
Charles Curtis	Nuclear Threat Initiative
Steve Fetter	University of Maryland
John Foster	Consultant at Northrop Grumman Space Technology
Steve Guidice	DOE (retired)
Siegfried Hecker	LANL (retired)
Eugene Ives	DOE Sandia (retired)
Raymond Jeanloz	UC Berkeley
Robert Selden	LANL (retired)
Michael Telson	University of California
Ellen Williams	University of Maryland
Richard Wagner	LANL (retired)
Francis Slakey	American Physical Society, Washington Office
Benn Tannenbaum	American Association for the Advancement of Science

“The AAAS study provides a valuable contribution to the discussion on RRW. The RRW program will allow us to ensure the long-term reliability of today’s aging stockpile,” D’Agostino said. “RRW also will give us the chance to dramatically improve the security and safety of the weapons themselves. In this age of terrorism and uncertainty, America should have the smallest, most secure and most reliable stockpile possible. RRW will give us that opportunity.”

The report also discusses the importance of moving forward with NNSA’s efforts to modernize and transform the aging nuclear weapons complex, known as Complex 2030.

“Several of the AAAS report recommendations reaffirm our ongoing plans to study the RRW concept and move forward with our modernization and transformation efforts, which will lead to

smaller, more efficient and more secure nuclear weapons facilities,” D’Agostino said.

Specifically, the report recommends changes at the Pantex Plant to accommodate the weapons throughput necessary for a reasonable range of stockpile options and development of a plutonium strategy that can produce pits in reasonable quantities on a timely basis. NNSA is already implementing both of these recommendations with demonstrated progress.

D’Agostino said that NNSA officials will review the report recommendations, and also noted that the report validates NNSA’s current plan to develop a detailed cost and schedule plan for RRW. “The next step, before we go any further and seek approval from Congress to begin engineering development, is to answer questions about RRW’s cost and timeline,” he said.

Regarding the report’s policy recommendations, the Administration will be looking closely at them in connection with the President’s desire for the smallest nuclear weapons stockpile consistent with our nation’s security.

Rep. Ellen Tauscher, chairwoman of the Strategic Forces Subcommittee, commended the report.

“The report is extremely consistent with what I have been saying and informs the direction Congress should take in the future,” she said. “If the Reliable Replacement Warhead (RRW) is going to move forward and we are to realize the program’s real potential, its risks must be identified and clear policy objectives must be outlined. The Bush Administration has to make it clear that RRW will not come at the expense of stockpile stewardship and that a real commitment to not-testing exists.”



JACQUELINE MCBRIDE/NEWSLINE

Do you know the way to DNA?

At left: Postdoc Jennifer Links of CAMS assists fascinated fifth-graders at Tracy’s South School with the steps in making DNA jewelry on Wednesday’s National DNA Day. The Lab and the Edward Teller Education Center (ETEC) partnered with the Tracy Unified School District to provide the activity for nearly 700 fifth-graders in nine Tracy schools. More than 30 Lab scientists and volunteers participated.



Students proudly display their newly created DNA necklaces on National DNA Day. The day commemorates the completion of the Human Genome Project in April 2003 and the discovery of DNA’s double helix in 1953.

i.want ads

Due to the high quantity of ads and space limitations, these want ads have been abbreviated.

For the complete ad listings, refer to the internal Website: <http://www-r.llnl.gov/pao/news/wantads.html> or for the latest pdf download and retiree information, see the external Website: <http://www.llnl.gov/pao/employee/>. Please note that these ads appear on the Web.

Date of ads: Approx. April 17 to April 24. Ads appear on the Web for seven days.

AUTOMOBILES

1976 Chev Corvette Stingray \$9,000 obo New tires, original wheels & small block 350 L48 209-481-1021

5.3 L Vortec engine & trans from 2002 Chevy Tahoe \$1,800. 209-892-6060

1987 Ford Mustang BO Runs, needs work, call before 6 p.m. 925-447-0747

1989 Ford Ranger 950 5-speed 4 cyl, camper shell, white, current smog, 150k miles. 925-443-8889

1994 Chevy Suburban 1500 Silverado \$4,000 very good condition, 156,500 miles, 5 Speed 925-443-7729

1995 S500 Mercedes Sedan BO 122in WB, 145,000 miles, dark grey exterior, light grey interior. 925-634-5954

1997 Ford Explorer Green, 4dr, 4x4, 4.0 SOHC V6, 125k, F&R AC, Tilt, Cruise, 925-846-4374

1998 Chrysler Minivan (Town & Country LXi AWD) fully loaded \$3700 (925) 980-9900

1999 Nissan Maxima GXE Automatic \$7,549 4 door, Automatic, 108,000 miles, 510-326-8108

2001 BMW 325ci 16,700 Silver/Blk int., 2dr coupe, AT w/steptronic, 76K miles, 209-836-2990

2001 Honda Passport \$6,950 OBO 130,000 miles. 925-437-0405

2002 Ford Explorer \$8,500 OBO 4WD, new tires, auto locks/windows/headlights, 209-604-0811

2002 Mercedes C-Class \$17,600 4-door, Exterior-Black, full loaded, 69K mi. 925-337-3462

2003 Chevrolet 4x4 Z71 Fully Loaded \$17,500 OBO Power everything, charcoal black, 925-634-0778

2004 Honda Civic LX - 20k miles \$13,500 obo Very clean, low miles, 925-292-8397

2004 HONDA ODYSSEY EXL \$20,855 Excellent condition, 33,000 miles, new tires, 510-663-1149

2004 Nissan Sentra \$8,500 2004 with 44,000 miles. GREAT car, 925-784-6653

2004 Pontiac GTO for sale \$18,900 All black, 7800 original miles, very nice condition, 925-447-5633

2005 Toyota Matrix \$14,200 Only 20,600 miles 209-835-9240

97 Honda CR-V \$4,995 2WD, 4-Cyl., A/T, Excel. Cond., 129K, A/C, AM/FM/CD, 925-998-2620

Mazda Hard Top 800 that fits a 1990. Good Condition. Also black vinyl "Boot Cover" for 1990 Mazda \$150 925-606-0524

Automobile Tires/ various sizes, used 925-735-6002

BICYCLES

Girls Bike - Trek Mystic 35 small bike...pink with 16" wheels. 925-455-8006

BOATS

Boat 500 14' aluminum boat and trailer. Hull is good. Trailer needs work, wheels, tires, etc. 422-5810

ELECTRONIC EQUIPMENT

200 Behringer Ultrabass BX3000 amp head and X-Audio speakers (4-10s). Rarely used 925-447-3092

Garmin eTrex Legend C GPS \$160 Great for hiking, biking, boating, auto navigation. 209-599-0922

Hitachi Stereo Cabinet \$20 Glass front and top. Cherry wood finish. Good condition. 925-964-0534

i-Pod Mini \$115 Silver and in new/gently used condition. It has 4 GB and a song capacity of 1,000. 925-216-3980

Sony Wega, flat screen TV \$200 OBO Model KV-32FV15. Great Picture, 925-516-1243

Subwoofer 45 Sony, black, cabinet 15x12x14,

925-443-8889

GIVEAWAY

Free cooking magazines "Taste of Home", yours to pick up. 925-447-2687

Free loveseat approx. 5 ft. Blue with wood trim. Good condition. You pick up in Livemore. 925-447-1360

HOUSEHOLD

2 Beautiful Italian Leather Love Seats \$1,500 OBO Cocoa color. Please call for questions. 925-872-6448

Beautiful Solid Wood Display Shelves Originally paid \$149 for the regular and \$129 for the corner. Both yours for \$145-price is firm. 925-640-5469

Cal King Mattress \$200 obo Like new. 3 yrs. old, 2 of which was in storage. 925-443-8354

Dining Table, Chairs and China Buffet \$120 Buffet very solid wood looks like pecan. 60" in length. Have several pictures of items. \$60 for Dining room set and \$60 for buffet. 209-985-4476

Dishwasher for Sale \$60 Whirlpool Works well; great for a rental house. 925-552-0282

Formal oak dining set \$600 With 2 table leaves, hutch and buffet. 6 chairs 2 are arm chairs. 925-362-8796

GE Refrigerator/Freezer \$275 Newer model, white, exe.cond. 925-337-3462

Headboard, girl's twin \$150 Cute contemporary headboard & footboard w/butterfly and flower inserts. 422-8183

Leather sofa and matching big easy chair. \$1,500 Nail head trim. Dark russet/brown. Excellent cond 209-786-5967

Oak Dining Room Table, Chairs, Buffet, and Hutch \$450 OBO 925-447-7857

Oak Entertainment Center \$240 Approx 5' high X 6' wide. Excellent condition 925-606-0524

Oak Twin Bed w/ 3 Drawers \$75 OBO Oak Finish Twin Bed With Three Drawers. 925-872-6448

Recliner \$200 Like new, electrical movement, dark green 925-935-5004

Refrigerator \$220 16.5 cu. ft. Refrigerator/Top Freezer. 1 year New. Kenmore 925-240-7990

Solid oak bedroom set \$525 obo Twin, made by Eagle. 925-243-9123

Stairway lift \$1,500. Excel brand. Move people up and down stairs on a chair. 925-240-7990

TV Armoire \$950 French Provincial. Made of alder wood. Matching 36" square coffee table as well. 925-550-7846

TV Stands \$20 each One low, gray with glass front. One medium height, light wood. 925-485-1988

Whirlpool Dryer \$30 Extra large capacity, white in good working condition. Have washing machine also available. 209-599-7955

Wood Mirror \$40 Wood frame. From dresser unit, no longer needed. 925-964-0534

Wooden desks \$10-50 Solid wood desks: 1) 3'x5' sturdy but not pretty \$10. 2) 3'x6' executive desk, much nicer \$50. Near lab. 925-596-0165

MISCELLANEOUS

\$1 Silver certificates -- about 20 dollar bills that are Silver Certificates. 925-455-8006

11x20 Freestanding Arbor/Pergola \$2,500 OBO Deluxe white powdercoated aluminum. 6 Round columns. 209-356-1747

1-ton folding engine hoist \$100 obo Used twice, like new. 209-833-0834

Dobsonian Telescope \$175 Orion Skyquest XT8. Includes: Filter set, Plossl 10mm & 25mm Lenses, 2x Barlow Lens, 925-606-5307

Hiking boots \$45 Merrell waterproof brown almost new, size 10.5. Too small for owner. 925-447-8415

Hydraulic engine crane \$250 Very heavy duty w/wheels. 925-829-3175

Inversion table \$150 LifeGear 75177, deluxe, rated 350lbs, ratchet ankle connection, 925-449-1409

Kids' Disneyland Tickets 2 Kids 2 Day Hopper Pass. \$85 each. 925-424-5966

Ladders \$20. Used 12 ft 3-legged wooden picking or pruning ladders in good condition. 209-892-6993

Landscape pebbles make offer, buyer must shovel them up and haul them away. 925-449-4466

Lawn mower & edger, \$200/100 McLane gas mower w/ Front-Throw, 3.5HP Briggs & Stratton engine, 20-inch, 7-blade, Reel-type, 209-833-8100

Moving boxes for sale. \$25, Various sizes, mostly only used once. Packing paper available too 925-964-0534

Murrano blown glass chandelier, \$5,000 OBO. Beautiful hand blown glass leafs, 209-526-6272

Outdoor benches. \$125 each. Two deep-stone like benches. Excellent condition. 925-443-7082

Outdoor carpet 100 10'x20'. Great for patio or camping. Gray/pink. Very clean. 925-634-1769

Redwood outdoor patio furniture w/cushions, chair, te-ta-te, chaise lounge 925-829-3175

Six beautiful 12-inch-high silk arrangements of green hydrangeas and peach-colored flowers, 925-447-2687

Under desk file drawers. \$30 each 925-640-5469

MOTORCYCLES

1979 Suzuki RM 125 N \$800 OBO. 209-338-8869

1985 Suzuki Lt250 \$2,500 OBO MINT condition. 925-443-6315

2002 Suzuki Bandit 1200S \$3,750 Original owner, excellent condition, call for details, 925-606-6515

2003 Yamaha V-Star Classic 1100 CC \$6,500 OBO Only 1300 Miles, 209-239-7576

2005 Kawasaki Meanstreak \$1600 8,500 1600 CC. Only 700 miles on it. 209-345-6160

2005 Yamaha V-Star 100 Custom \$7,000 OBO Cruiser with 9,100 miles. 209-836-1706

Harley-Davidson \$9,000 1991-FLSTF Fat Boy, Plus lots of extras. 209-823-8678

Ladies' BMW motorcycle jacket \$150 Red/Black/Gray - XL; 209-612-2843

Racing Leathers \$250 Vintage Bates 1969 two piece road racing or short track leathers, joined in the middle with a zipper with inner liner. 209-823-9612

MUSICAL INSTRUMENTS

Guitar \$150 Durango Guitar and hard carrying case. Excellent condition. 209-606-4287

Piano \$2,500 OBO 1903 Chickering Studio upright piano. Plays and looks great in very nice condition. Recently serviced and tuned. 925-634-9973

PETS

Ball Python 90 Easy to handle, 4 years old, has only eaten live foods. includes tank, heater, etc... 209-239-2639

Chinchilla w/ cage and all accessories \$150 Standard grey chinchilla, very friendly, has been handled. 209-380-1995

Rabbits for adoption \$50 Bunnies, 2, for adoption to good home. Adorable 3 yr. old females; 422-8183

Reptile Cage and Stand \$40 Reptile cage with four light fixtures. 925-426-8224

Yorkshire Terrier 3 year old male available to stud out. 209-679-3777

RECREATION EQUIPMENT

Figure skates \$25 Men size 10 1/2, hardly used 925-447-8415

Recumbent Exercise Bicycle \$250 All the bells and whistles - heart monitor, programmed sessions, etc. Lots of miles left! \$400 new.

925-485-1988

Tunturi Exercise Cycle \$45 obo Tunturi Exercise Ergometer stationary cycle. 925-735-1841

RIDESHARING

Carpool from Salida I am looking for someone to carpool with me, I live in Salida, drive a '06 Tahoe and work M-F (flexible scheduling). 209-543-0572

Manteca Vanpool looking for 3 riders starting immediately. 8-4:30. 5 days a week Manteca/Lathrop pick ups/ drop offs. 3-6145; 209-239-5178

SHARED HOUSING

Room For Rent \$750 Residential home Located in Pleasanton, 925-443-2827

Room for rent \$650/month Room available in nice neighborhood, May 2007-October 2007, short-term, summer student. 925-454-1881

Room for Rent-Tracy \$500/mo This room is equipped with TV, DVD, Internet access, Bed, Dresser, Computer, desk and chair. 925-337-3789

Room to Rent \$650/mo Nice neighborhood, large room available, short-term. 925-784-7148

Room+ For Rent \$800/mo. Spacious room with cable and phone jack, private bath, utilities included 925-846-5763 (H) or 925-209-8778 (C).

Roommate in Livemore. Condo. \$800. One bedroom and private bath for rent in 1350 sq. foot condo in Livemore. 925-449-4798

Rooms to rent. \$650. Springtown neighborhood, 2 rooms to rent short-term / summer students, 925-373-0698

Shared housing. \$650. Room for rent. Furnished or not. 2 miles to LLNL. Short term/summer student ok. Gay friendly household. 945-784-7148

TRAILERS

2004 Layton Skyline Travel trailer. \$16,900 OBO M-2680. 925.292.9680

Horse trailer, 1999 Logan Competitor 3-horse slant, BP \$7,200 OBO 925-449-6911

Motorcycle Trailer \$700 OBO Very Nice Medium size 3 rail motorcycle trailer. 209-338-8869

Weekend Warrior Toy Hauler \$27,000 obo. FS 3000. Perfect condition, gel coat, Bay Windows with swivel chairs, too many extras to list! 209-834-8689

TRUCKS

Ford Ranger \$3,000 4x4. Good condition. 925-422-5810

1972 Chevy stepside \$6000 OBO Black plates runs strong and very straight. 925-373-3429

Dodge 2001 Ram 1500 SLT \$9,800 obo Org. Owner (Modesto), Exc. Condition, Only 46K

miles, V8 - 5.2, Aut trans. Regular cab with long bed. 209-526-8906

Ford truck \$7,500 Excellent condition/extras. 925-735-6002

Pick-up \$42,900. 2006 Dodge SLT 2500 209-609-7758.

VACATION RENTALS

Arnold area 2,200 sq. ft. vacation rental with large, well equipped rec. room (pool, air hockey, foosball, poker table, ping-pong, 50" plasma TV, Nintendo 64, Playstation 2). 925-245-1114

Maui, HI Kahana Reef oceanfront 1BR/1BA condominium. 925-449-0761

Mexico Timeshare Week \$800 One Timeshare week, 2 BR (sleeps 6) in Cancun or Acapulco. (Panama is also an option) Available for 7 days in May or June. 925-484-3889

Santa Cruz Sooo cute beach cottage in Santa Cruz near harbor. One mile from boardwalk. 2 bedr, 2 bath, spa, fully loaded kitchen, gas grill. Plan ahead for summer fun! 925-245-1114

SOUTH LAKE TAHOE CHALET Lab Rates 3 Bedroom 2 Bath Chalet, nicely furnished, comfortable, all amenities, quiet area. Reserve now for Summer 209-599-4644

Spacious Tropical Hawaii Vacation Home Rent entire house - 5 bdms/3 baths sleeps 12; or Penthouse only - 3 bdms/2 baths sleeps 6. 415-377-5361

Tahoe 2-Bedroom Suite. \$150/Night 2 Bedroom/2 Bath w/Living Room/Dining Room & fully equipped kitchen 925-634-1599

Truckee Tahoe-Donner cabin. \$125 , 3bd/2bth Truckee Tahoe-Donner Cabin fully furnished for summer lease, or weekly/nightly rent. 925-858-0419

Vacation cabin 225/WKND Soda Springs/Donner Summit. Classic A frame, 2BR/1BA+Loft, sleeps up to 8, 209-836-3481

WANTED

Need house/room(s) for May 19 & 20 in Chico 530-251-3685

Computer Notebook. Main use is for school papers. 925-240-9992

Dive Weight Belt Looking for a cheap(ish) weight belt for diving. 20-25 pounds is about perfect. Any condition ok. 925-454-1006

Looking for a small 12v trolling motor. Nothing fancy. 925-545-1006

I need a used router for small wood project. 209-499-0638

Quote for electrical work. Quote to install electrical and hardware for three ceiling fans in a Livemore home with 8 foot ceilings. (925) 455-6785

Yard Helper. \$10/hour. Need someone to help with cutting down weeds with a gas weedeater must know how to operate. About 3 hours in Manteca. 209-239-5730

Newsline is published weekly by the Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

NEWSLINE

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3-4902

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Distribution: Mail Services at LLNL

TRANSITION NEWS

TRANSITION, from page 3

terminate or retire) who cash out their vacation balances may elect to defer a portion of their cash-out value (subject to IRS limitations) to their UC retirement savings plans. To help employees estimate vacation cash-outs and potential tax impacts, the Finance Department has developed a vacation cash-out calculator and made it available on the payroll Web page: <https://www-cfo.llnl.gov/organization/ad/pr/>.

It should be noted that vacation cash-outs are subject to FICA and Medicare withholding where applicable, and subject to mandatory supplemental withholding. To use the calculator, employees may obtain current information on leave balances and earnings from LAPIS self service <http://www-r.llnl.gov/lapis/> which may assist in estimating information at the point in time of their projected cash-out.

Benefits office hours expanded

Hours for the Benefits Office have been expanded and additional staff hired to ensure coverage from 8 a.m. to 5 p.m. Monday to Friday. Phone coverage in the Benefits Office has also been increased to 8 a.m. to 5 p.m.

LAPIS offers self-service resource

Employees are reminded of the self-service resources available from the Livermore Administrative People Information System, or LAPIS, which may be particularly useful to employees during contract transition.

Five new self-service capabilities have been added to LAPIS, the Lab's official system for managing employee information. In addition to verifying and updating personal information, employees can now view their payroll earnings statements, manage direct deposits, change W-4 withholding elections, view benefits summaries and request a reprint of previously-issued W-2 forms.



To access self-service resources, just type "lapis" into a supported Web browser (or enter <https://psapp.llnl.gov/pspp/ps89prd>), enter your OUN (official user name must be lower case, i.e., smith1) and PAC (personal access code), select "Self Service" from the menu on the left, select the applicable link and click to perform the desired function.

Employees who don't have access to computers can use public-use workstations located in the Benefits Lobby (Bldg. 571), the Human Resources Office (Bldg. 571, room 2239), the Main Library (Trailer 4727), the Payroll Lobby (Bldg. 314) and the Training Facility (Trailer 1879, room 1000).

For more information or assistance, phone the LAPIS Help Desk, 2-2444, or e-mail. Help desk hours are 8 a.m.-12 p.m. and 1-5 p.m.

Fact sheets distributed and transition website updated

Question and answer fact sheets on transition-related topics were distributed to employees via Lab mail and posted on the web this week along with a new set of answers to frequently asked questions.

Fact sheet topics include: job security and employment; retirement accounts – 403(b) and 457(b); vacation and sick leave. A fourth fact sheet on reciprocity was also developed for those employees with questions on this issue. The fact sheets and updated transition information is available on the transition Website (<http://transition.llnl.gov/home/>).

Additional fact sheets will be produced as questions arise and new information becomes available from the new contractor.



Deadline for making tax withholding changes and deferred compensation changes					
			Salary deferral change deadline		
Pay period ending	UC pay date	Days in pay period	Tax withholding change deadline	DC after-tax & 403(b)	457(b)
Bi-weekly					
June 30, 2007	July 6, 2007	14	June 29, 2007	June 28, 2007	May 31, 2007
July 14, 2007	July 20, 2007	14	July 13, 2007	July 13, 2007	June 29, 2007
July 28, 2007	Aug. 3, 2007	14	July 27, 2007	July 27, 2007	June 29, 2007
Aug. 11, 2007	Aug. 17, 2007	14	Aug. 10, 2007	Aug. 10, 2007	June 29, 2007
Aug. 25, 2007	Aug. 31, 2007	14	Aug. 24, 2007	Aug. 24, 2007	July 31, 2007
Sept. 8, 2007	Sept. 14, 2007	14	Sept. 7, 2007	Sept. 7, 2007	July 31, 2007
Sept. 22, 2007	Sept. 28, 2007	14	Sept. 14, 2007	Sept. 14, 2007	Aug. 31, 2007
Sept. 30, 2007	Sept. 28, 2007	8	Sept. 14, 2007	Sept. 14, 2007	Aug. 31, 2007
Monthly					
June 30, 2007	June 29, 2007	30	June 22, 2007	June 19, 2007	May 31, 2007
July 31, 2007	Aug. 1, 2007	31	July 25, 2007	July 23, 2007	June 29, 2007
Aug. 31, 2007	Aug. 31, 2007	31	Aug. 22, 2007	Aug. 21, 2007	July 31, 2007
Sept. 30, 2007	Sept. 28, 2007	30	Sept. 14, 2007	Sept. 14, 2007	Aug. 31, 2007

Paycheck distribution, and tax withholding change deadlines

All employees will receive their final UC paychecks on Sept. 28. Bi-weekly paid employees will receive two paychecks on that date, one for the two-week pay period ending Sept. 22 and one final UC paycheck for the last eight days of the UC contract (Sept. 23-30). The accompanying table gives the planned paycheck distribution dates and deadlines for tax withholding changes to affect specific paychecks. Employees may make changes to tax withholding amounts through LAPIS self service at any time prior to these deadlines.

Geese flocking to inviting urban landscapes

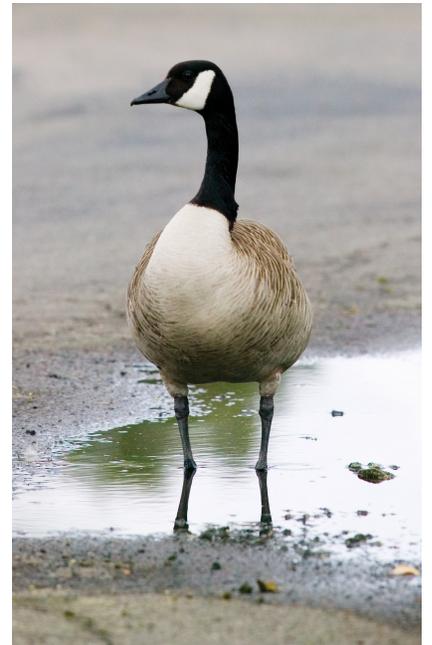


LLNL's wild side

By Laura Burkholder



TED STEINKE



JACQUELINE McBRIDE/NEWSLINE

Above: A male goose fends off an intruder. Right: A goose takes a stroll on site. Below: Newborn goslings go for a swim with parents.

In 2003, one pair of Canada geese (*Branta canadensis*) nested at LLNL's Livermore Site. This geese population has slowly increased over the years, and this year, four known pairs of nesting geese are at the Lab. The eggs in one nest already hatched and the parents were observed near Lake Haussmann with their new goslings in tow. So, we can expect the remaining nests to produce fuzzy little ones soon.

Historically, Canada geese wintered in the continental United States and Mexico. In spring, they migrated north along the Pacific, Central, Mississippi, and Atlantic Flyways to arctic breeding grounds. Canada geese were extirpated from most of their range in the early 20th century as a result of unregulated hunting, egg collecting and habitat destruction. All Canada geese and their eggs became federally protected under the 1918 Migratory Bird Treaty Act, designed to protect native species.

Today, the Canada goose is the most widely distributed and recognized waterfowl in the country. This incredible comeback is attributed to a population increase from stocking captive flocks during the 1960s and 1970s. Recovery of this species has allowed for increased sport hunting and recreational wildlife viewing.

The recovery of Canada goose populations in North America continues, largely due to an increase in resident goose populations. In general, there are two distinct populations of Canada geese, residents and migrants. The geese nesting at the Livermore Site are part of the growing resident Canada goose population that can be found year-round in the lower 48 states. In spring, resident Canada geese remain on or near their wintering grounds, often in the continental United States, to nest and rear their young. Urban and agricultural habitat is often so ideal for these geese that they do not migrate. Current Canada goose populations represent a large recovery to above historic numbers and a great success story of wildlife management.

Life history and behavior

Eleven subspecies of the Canada goose have been recognized, although many are nearly identical in appearance. Flocks of Canada geese are easily identified during migration as they fly overhead in a distinctive

V-pattern. Canada geese occur in natural wetland areas and are often associated with human-altered landscapes, such as agricultural fields and manicured lawns. Their primary diet consists of grasses, grains, seeds, and wetland vegetation.

Canada geese are monogamous. Nesting usually begins in March, when the female begins nest construction. Nest sites are usually within 150 feet of a water body and offer wide visibility for readily detecting predators. The female often uses the same nest site in multiple years. She lays about five to seven eggs over several days; incubation lasts for about one month and is performed solely by the female. The male guards the nest area from potential predators and threats. Humans may be perceived as potential threats to the nesting area and can be charged or even chased by an aggressive hissing male.

As the eggs begin to hatch and goslings emerge, males may be aggressive, defending their new family. The geese may remain in the breeding area for about three months while the goslings grow their flight feathers. The adults

molt their flight feathers in June and July, so also are flightless at this time.

Urban Settings: LLNL is not unique

Urban landscapes offer attractive foraging and nesting habitats to Canada geese. Geese are chiefly grazers. Mowed lawns provide geese with new grass shoots. An almost complete lack of predators in urban areas also adds to the appeal. Nesting successes can attract additional geese to an area in subsequent years.

While the geese can be interesting and fun to observe, they are wild animals and conflicts between geese and humans can be a concern. LLNL wildlife biologists are working toward developing a long-term integrated goose management strategy for the Livermore site to address human-wildlife interaction issues.



JACK BINCH

How to avoid conflict

- Do not approach the geese, their nest, or goslings, especially if the geese appear aggressive. Keep at a safe distance. If there is no alternate route and you must approach geese or a nesting area, avoid eye contact and continue walking.
- Please DO NOT feed the geese. Feeding can increase aggressive behavior toward humans and lead to overcrowding of geese in an area. While feeding geese may seem like a benefit to the animals, it can lead to poor health and nutrition and increased disease.
- Call a Wildlife Biologist (4-WILD) if you have any questions or concerns.



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